

ED / Sam

6/22/98

MEMORANDUM

Quantity Problems

VMR ~~shows~~ volume

" " QUALITY / STATIC

Calc. Problems

MUST GET DEFECTS < 1%

KEYBOARD

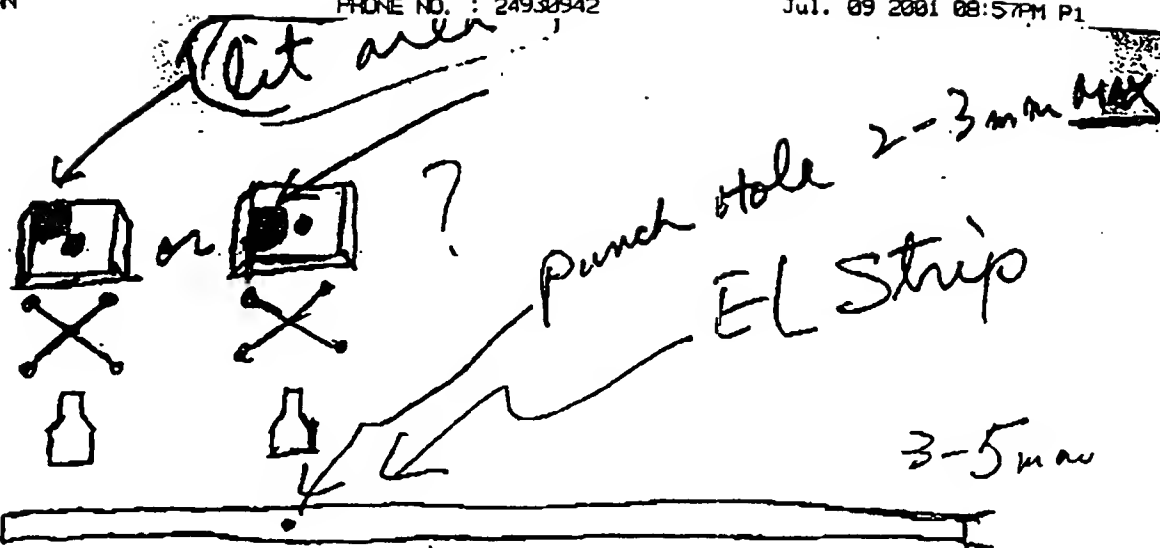
EL BETTER THAN LED

- LOW POWER (LAPTOP)
- " HEAT
- MIN CHANGE TO KEYBOARD
- EVEN LIGHT UNDER / BETWEEN KEY
- NO LIGHT PIPE
- HIGH COST - TRY STRIPS INSTEAD

FULL SHEET

- INVERTER INC. COST

INVOICES - WIRE TRANS. PMT

Randy
EL
Board

EL →

Plastic
Key
Frame

Make EL Strip according
to the LIT AREA.

Die Cut?

June 29, 98

Key cap

Hinge

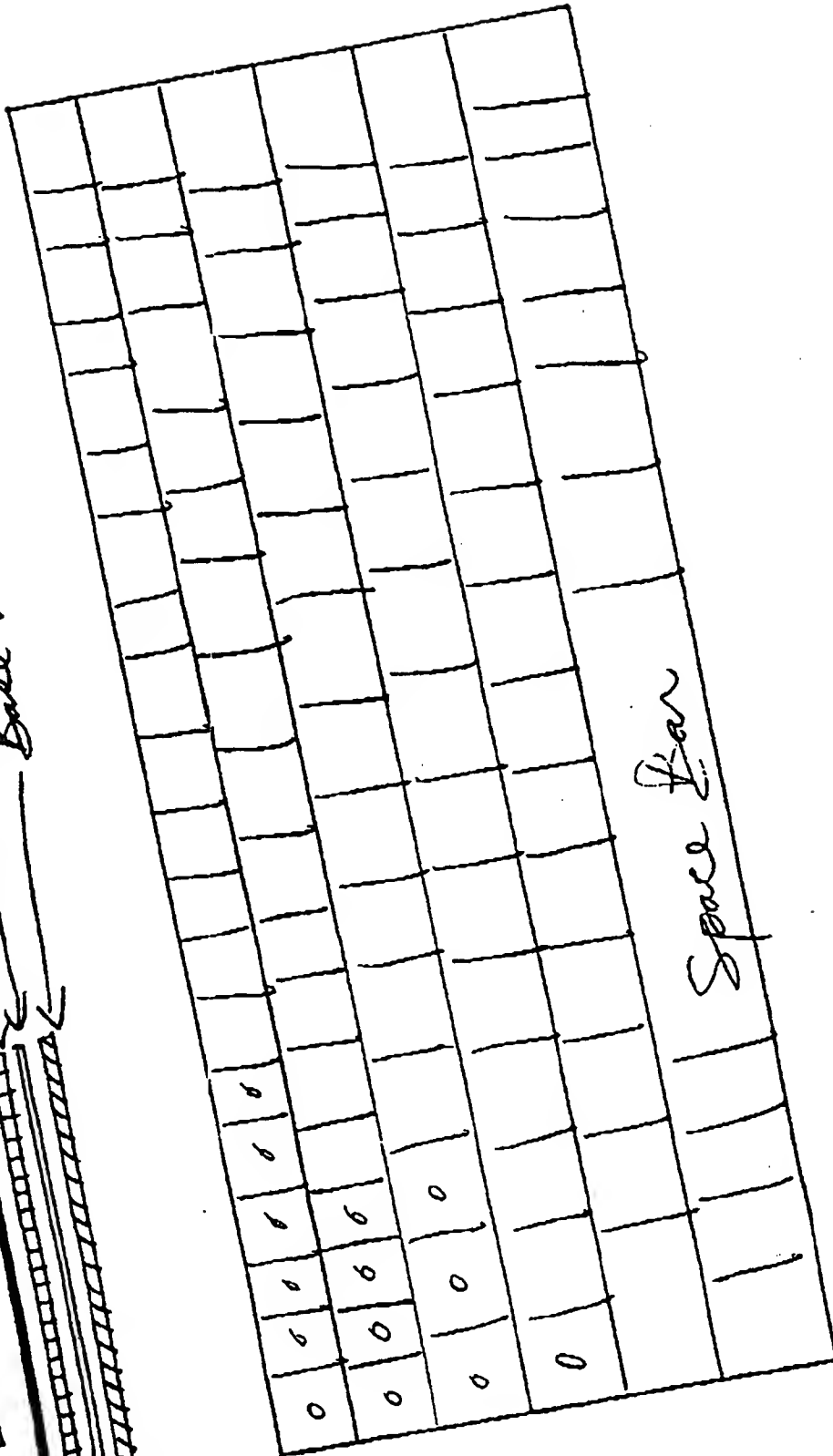
Rubber actuator

EL

Key frame

Circuit Membrane

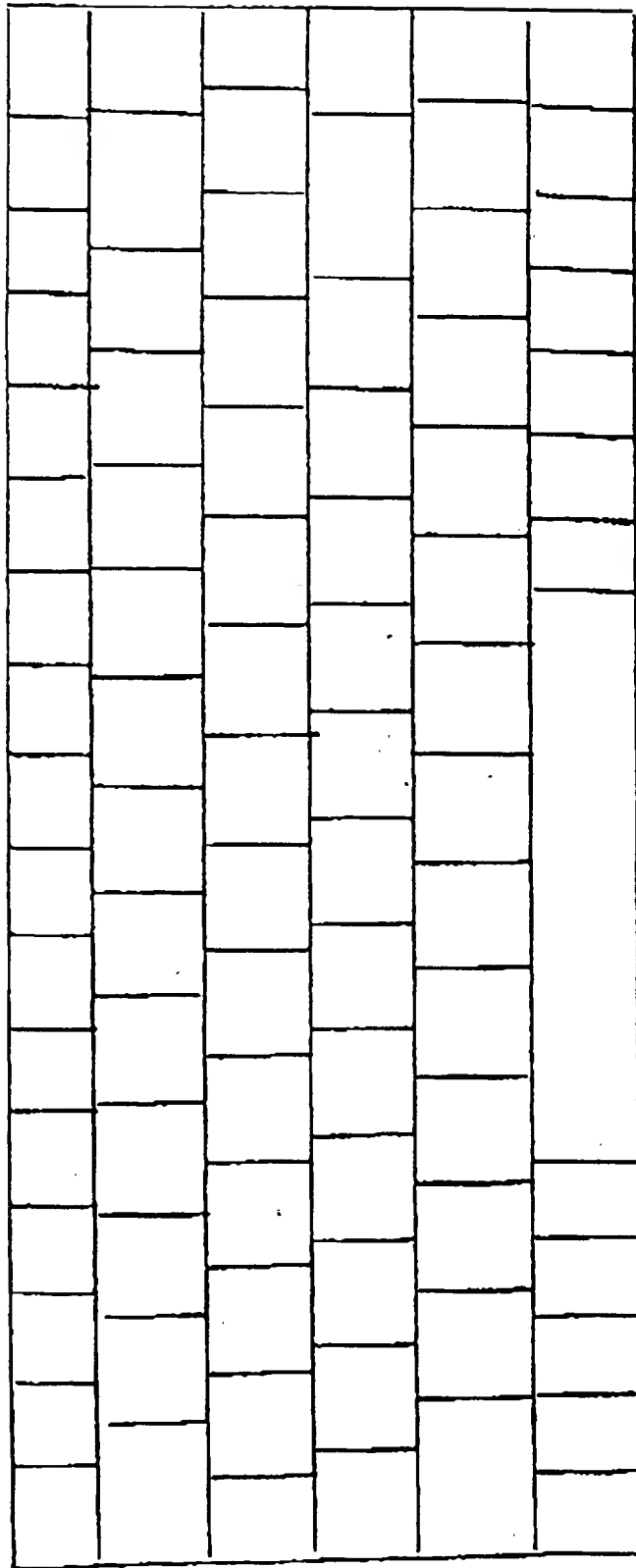
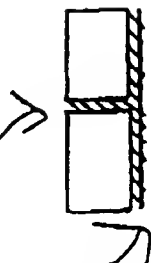
Base or Housing



June 29, 98



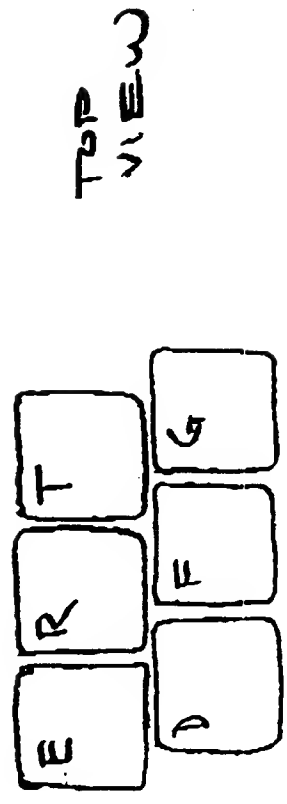
There will be light between keys. X and Y axes.
 Every key has a clearance about 2 mm to the others.



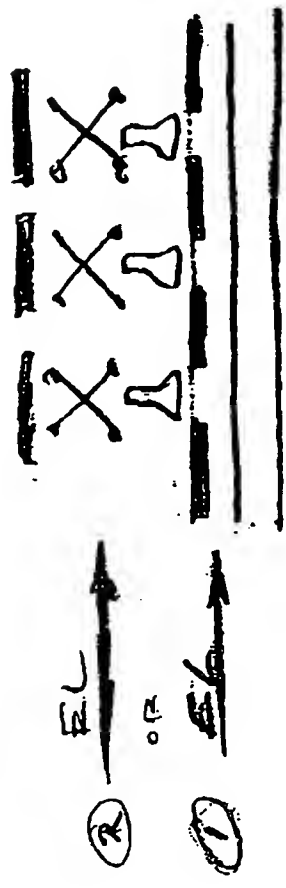
June 30, 98.

LAPTOP SCHEMATIC

7/13/98



- KEY TOPS
- KEY HINGE
- RUBBER PLUNGER
- ← BASE PLATE (PLASTIC)
 - ← CIRCUIT MEMBRANE
 - ← BOTTOM PLATE (METAL)



- ① LUMINESCENT LIGHT SHEET ADDED BETWEEN BASE PLATE & CIRCUIT, REQUIRING CLEAR PARTS - PLATE, HINGE, KEY
- ② ADD LIGHT ABOVE BASE PLATE - DIRECTLY BELOW KEY TOP
 - WILL IT LOOK OK WHEN NOT LIGHTED
 - & SEED BETWEEN KEY - CAN IT BE SUCKED TO LOOK DARK?
 - PUNCH HOLES IN EL? SEAL
 - LIGHT WILL COME THRU KEY & BETWEEN KEYS

To : Ed. Church - Questech.
From : Sam Chan.
Date : August 5, 1998.

AVANTECH
MANUFACTURING
COMPANY

RK ✓
Board
file

A | M | C

Other topic
removed
for
confidentiality ©

Dear Ed.,

We are working on the light output of the new Keyboard and will send our design by fax and FedEx. when it is ready. Please contact Ken Pedersen to see if the design patentable. We will not make a prototype this time but go straight ahead with tooling. We hope that we will be able to send our production sample by Mid-October. If you have any suggestion on the project, please let us have your valuable opinion.

Best regards.

Sam Chan
SDKcc

Rm.473-475, Block 2, Yip On Factory Estate, Wang Hoi Road, Kowloon Bay, Kowloon.
Tel.(852) 2754-3577, 2751-9781 FAX: (852) 2795-2106



To : Ed Church - Questech.
From : Sam Chan
Date : August 12, 1998.
Ref : Leatherette Box.

AVANTECH
MANUFACTURING
COMPANY

A | M | C

Dear Ed.,

- 1) We are sending 100 Leatherette Boxes for AMW today.
- 2) We also attached herewith 2 designs for the Key Board with Back Light for your reference. Please let us know if you have any suggestion.

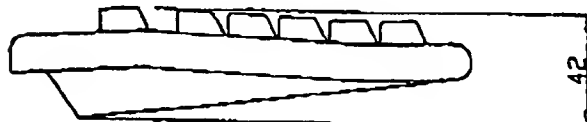
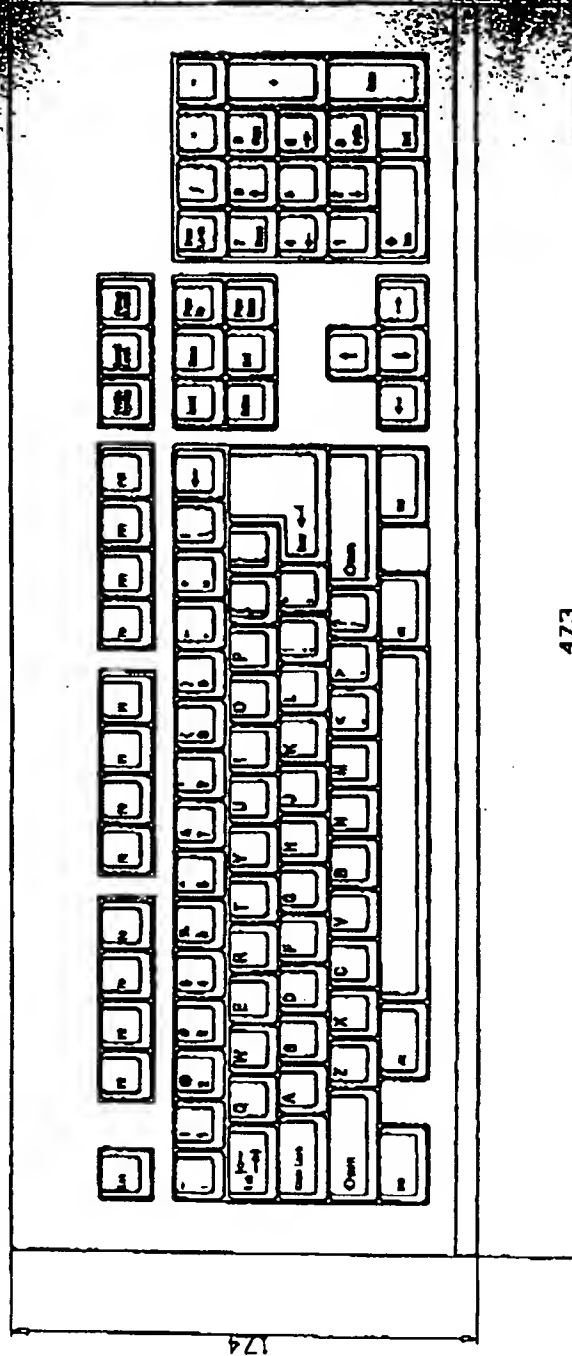
Best regards,

Sam Chan
Encl.
SC/cc

Rm.473-475, Block 2, Yip On Factory Estate, Wang Hoi Road, Kowloon Bay, Kowloon.
Tel:{852} 2754-3577, 2751-9781 Fax:{852} 2795-2106



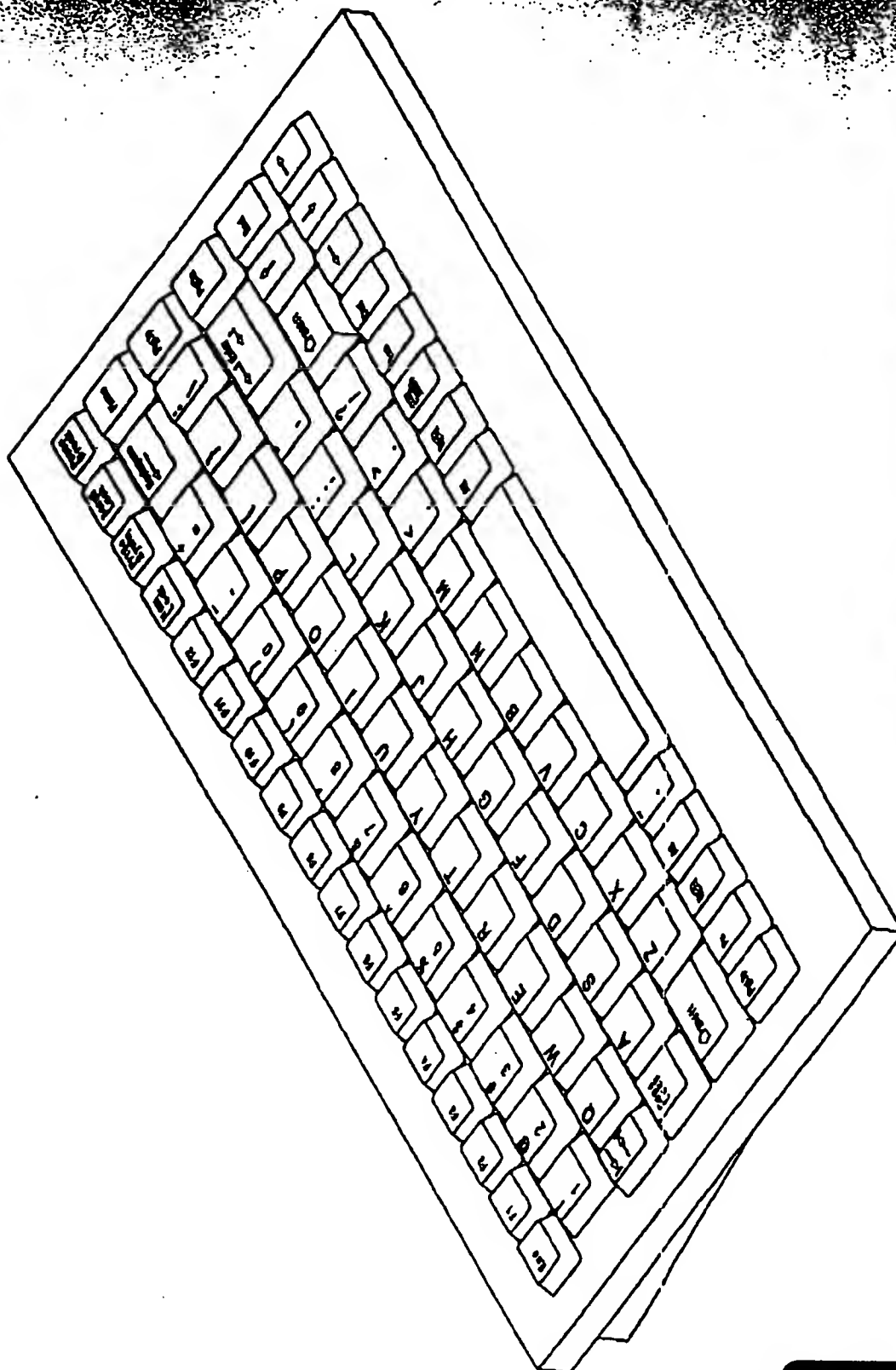
D.C.N. NO.	REV. ZONE	DESCRIPTION	DATE	APPRO.



DRAWN:	D.W.H.U.	UNLESS OTHERWISE SPECIFIED	TOP MOS INTEGRATING DEVELOP CO. LTD.	DATE
CHECKED:			MAIL	
APPROD:			FINISH	
24 ANGLE PRODUCTION				

NOTE : THIS RELEASED DRAWING WAS PRODUCED BY COMPUTER DO NOT UPDATE MASTER

EXHIBIT
A-page 8

[illegible]

DRAWN.	D.W.HU			UNLESS OTHERWISE SPECIFIED	TOP PAOS ENGINEERING SERVICE CO. INC.
CHECKED				WAL	MATERIALS
APPROD.				TMSH	AS
BY ANGEL					DATE
					SHEET NO.

NOTE : THE ESTIMATED DRAINAGE WAS PRODUCED BY COMPUTER
 4 ESTIMATED DRAINAGE FOR 00
 ATT: DO NOT UPDATE HANDED

ETHICAL-CONDUCT: M. J.

EXHIBIT

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